

202Pb (Continued)

4322.7+x, (15), [H] γ_{4091+x} 231.8 (\pm 100) D
 4445.3+x, (16 $^+$), [H] γ_{4323+x} 122.5 γ_{4091+x} 354.4 (\pm 100) D
 4352.4+x, (16), [H] γ_{4323+x} 129.7 (\pm 100) D
 5241.9+x, (17 $^-$), [H] γ_{4445+x} 796.6 (\pm 50) D γ_{4091+x} 1151.0 (\pm 100) D
 5250.9+x, (18 $^+$), [H] γ_{4091+x} 1160.0 (\pm 100) Q
 5241.9+y, (19 $^-$), 1075 ns, $\mu=-1.881\ 57$ γ_{5242+x} Y
 5444.4+y, (18 $^-$), [H] γ_{5242+y} 202.5 (\pm 100) D
 5931.1+y, (20 $^-$), [H] γ_{5242+y} 689.2 (\pm 100) D
 6082.4+y, (21 $^-$), [H] γ_{5242+y} 840.5 (\pm 100) D

γ from ^{202}Pb (3.53 h) IT decay <for 1% multiply by 0.498 10>
 124.759 (\pm 1.13), 129.21 (\pm 0.083) E4, 240.31 (\pm 0.52) M1, 291.93 (\pm 0.062)
 (M1), 417.32 (\pm 0.82), 422.126 (\pm 1.72) E2, 532.34 (\pm 0.113) (M1), 547.42
 (\pm 0.258) E5, 657.496 (\pm 6.53) E1, 662.5511 (\pm 0.093) (E2), 786.996 (\pm 100)
 E5, 954.52 (\pm 2.04) (E2), 960.7015 (\pm 1.84) E2, 1382.85 (\pm_{re} 0.068 11) E4.

γ (^{202}Tl) from ^{202}Pb (3.53 h) EC decay <for 1% multiply by 0.503>
 148.82 (\pm 0.45 15) M1, 211.927 (\pm 1.53) M1, 241.11 (\pm 1.73) E2, 335.55 10
 (\pm 0.45 10) M1, 389.947 (\pm 12.4 10) M1, 459.727 (\pm 17.3 10) E3, 490.477
 (\pm 18.4 10) E2, 601.958 (\pm 1.2 1) (E2).

α from ^{202}Pb (5.25×10^4 y) α decay <for 1% multiply by <0.01>

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$\Delta:-20790\ 50$ $S_n:7410\ 60$ $S_p:2790\ 60$ $Q_{EC}:5160\ 50$ $Q_{\alpha}:4290\ 90$

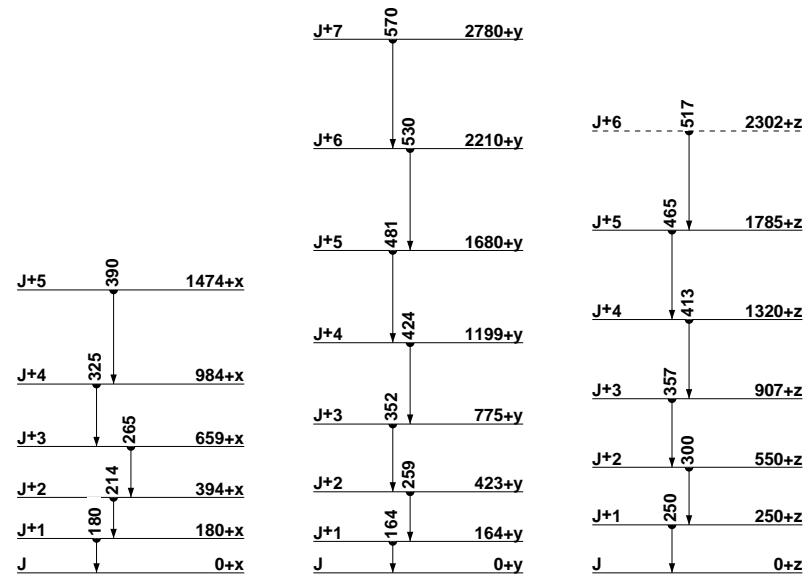
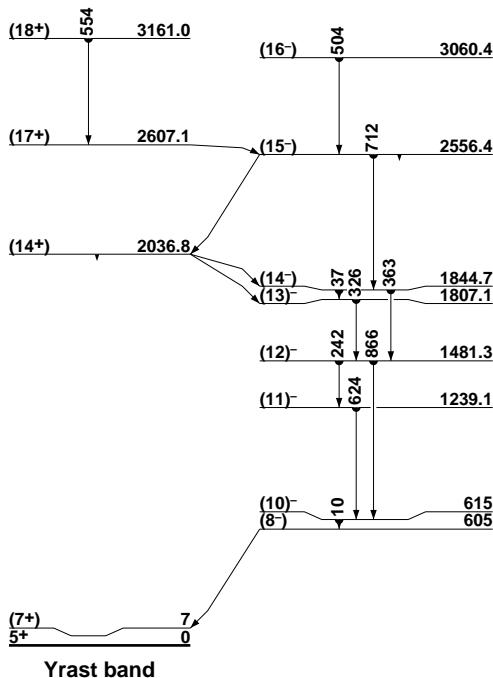
Populating Reactions and Decay Modes

A ^{202}Po EC decay (70DaZM, 70Jo26, 71KuZK, 77VaYV, 83KuZR, 84KuZV)
 B ^{206}At α decay (61Fo04, 61La02, 63Ho18, 64Th07, 68Go12, 79Ry03, 81Va27,
 81Va29)
 C $^{203}\text{Tl}(\alpha, 5n\gamma)$ (80KI06, 81Th03, 82Hu07)
 D $^{196}\text{Pt}(^{11}\text{B}, 5\gamma)$ (93Cl02)

Levels and γ -ray branchings:

0, 5 $^+$, 1.72 5 h, [ABC], %EC+% β^+ =100, % α <1 \times 10 $^{-5}$
 7 4, (7 $^+$), [BC]
 41 4, (4 $^+$), [B] γ_0 41.22 (\pm 100) (M1)
 72 3, 5 $^+$, [B] γ_0 \approx 68 (\pm 100) M1
 605 4, (8 $^-$), [C] γ_7 597.81 (\pm 100) E1
 615 7, (10 $^-$), 3.046 μ s, [CD], $\mu=+2.54$ 1, Q=0.106 13 γ_{605} 106 (\pm 100) (E2)

1239.1 1, (11 $^-$), [CD] γ_{615} 624.1 1 (\pm 100) M1
 1481.3 2, (12 $^-$), [CD] γ_{1239} 242.1 1 (\pm 112) M1 γ_{615} 866.3 1 (\pm 100 15) E2
 1803.7 2, (12), [CD] γ_{1239} 564.6 1 (\pm 100)
 1807.1 3, (13 $^-$), [CD] γ_{1481} 325.8 1 (\pm 100) M1
 1844.7 3, (14 $^-$), [CD] γ_{1807} 37.4 1 (\pm 7.2) (M1) γ_{1481} 363.4 1 (\pm 100 15) (E2)
 1852.7 3, (13 $^-$), [CD] γ_{1807} \approx 45.6 γ_{1804} \approx 49.0 γ_{1481} 371.4 1 (\pm 100 15) M1
 2036.8 3, (14 $^-$), [CD] γ_{1853} 184.0 1 (\pm 100 15) (E1) γ_{1845} 192.1 1 (\pm 112)
 γ_{1807} 229.7 1 (\pm 55)
 2203.3 4, (12 $^-$), [CD] γ_{1239} 964.2 1 (\pm 100) (M1+E2)
 2339.1 4, (13 $^-$), [CD] γ_{2203} 135.9 1 (\pm 27.4) M1 γ_{1481} 857.7 1 (\pm 100 15)
 (M1+E2)
 2556.4 4, (20.2 ns), [CD] γ_{2339} 217.2 1 (\pm 44.8) E2 γ_{2037} 519.7 1 (\pm 100 15)
 E1 γ_{1845} 711.8 1 (\pm 60.10) (E2+M1); $\delta=-9.2$
 2607.1 5, (17 $^-$), 310.50 ns, [CD], $\mu=+2.074\ 34$, Q=0.35 3 γ_{2556} \approx 50.7 (\pm 100)
 3060.4 5, (16 $^-$), [CD] γ_{2556} 504.0 1 (\pm 100) M1
 3161.0 6, (18 $^-$), [CD] γ_{2607} 553.9 1 (\pm 100) M1
 3396.6 6(?), [C] γ_{2607} 789.5 1 (\pm 100)
 3600.1 6(?), [C] γ_{3161} 439.1 1 (\pm 100)
 0+x, J, [D]
 180+x, J+1, [D] γ_{0+x} 180 D
 394+x, J+2, [D] γ_{180+x} 214 D
 659+x, J+3, [D] γ_{394+x} 265 D
 984+x, J+4, [D] γ_{659+x} 325 D
 1474+x, J+5, [D] γ_{984+x} 390 D
 0+y, J, [D]
 164+y, J+1, [D] γ_{0+y} 164 D
 423+y, J+2, [D] γ_{164+y} 259 D
 775+y, J+3, [D] γ_{423+y} 352 D
 1199+y, J+4, [D] γ_{775+y} 424 D
 1680+y, J+5, [D] γ_{1199+y} 481 D
 2210+y, J+6, [D] γ_{1680+y} 530 D
 2780+y, J+7, [D] γ_{2210+y} 570 D
 0+z, J, [D]
 250+z, J+1, [D] γ_{0+z} 250 D
 550+z, J+2, [D] γ_{250+z} 300 D
 907+z, J+3, [D] γ_{550+z} 357 D
 1320+z, J+4, [D] γ_{907+z} 413 D
 1785+z, J+5, [D] γ_{1320+z} 465 D
 2302+z(?), J+6, [D] γ_{1785+z} 517 D



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